

# PARABAFFLE plus **MPA2G78LS432**

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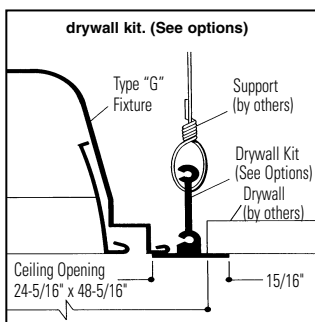
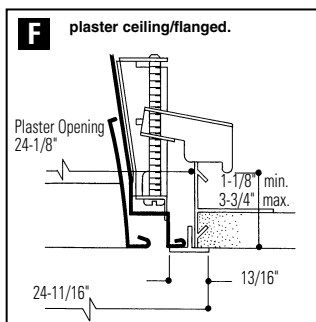
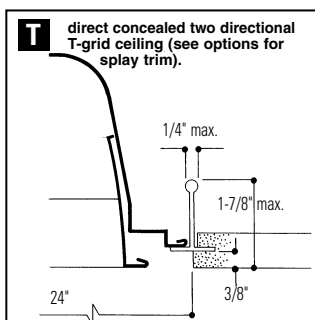
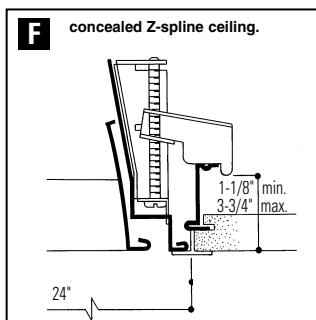
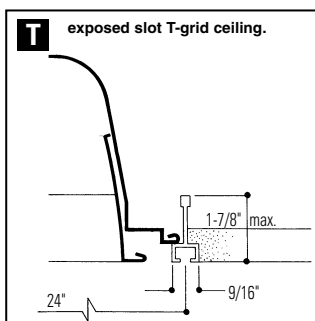
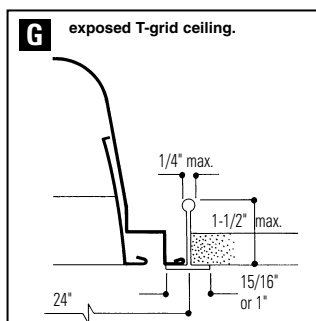
2'x4' RECESSED FLUORESCENT, 1 1/2" DEEP, 78 CELL PARABOLIC LOUVER  
STATIC OR AIR SUPPLY/RETURN, 4 LAMP, T8 OR T12

## FEATURES

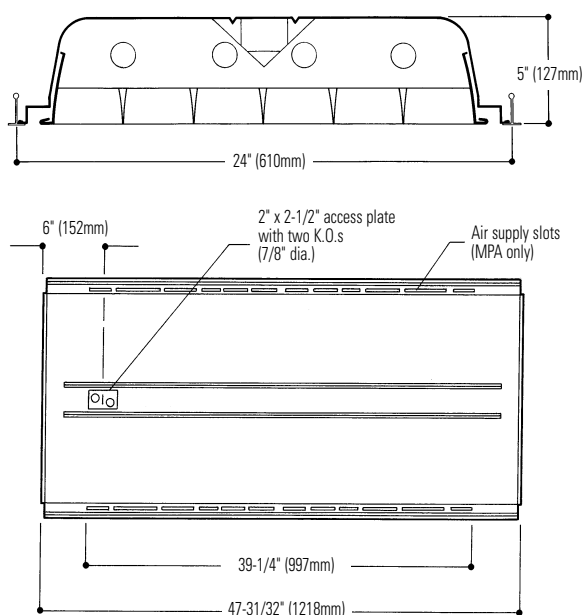
- 5" deep body.
- 3 1/2" x 3 1/2" cell size.
- 62.1% efficient.
- Clean contoured interior.
- Eyeleted heat removal vents in fixture ends.
- One-piece housing has ribbed construction for added strength.
- Hemmed over side rails for safe handling.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (patent no. 5,072,344).
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.
- Construction to meet Chicago Plenum is available.



## MOUNTING METHODS



## DIMENSIONS



## Job Information

## Type:

**Job Name:**

**Cat. No.:**

**Lamp(s):**

**Volts/Ballast:**

Lightolier a Genlyte Thomas Company

www.lightolier.com

Technical Information: (978) 657-7600 • Fax (978) 658-0595

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

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A0902

SECTION 2/Folio G20-20

**LIGHTOLIER**

**MODEL NO. MPA2G78LS432**

Luminaire Efficacy Rating  
LER-54.8 Watts-116.2 BF-0.86

# GT TESTING LABORATORY

45 Industrial Way  
Wilmington, MA 01887  
(978) 657-7600

REPORT NO.: G00021	DATE: 02-15-2000	
CATALOG NO.: MPA2G78LS432120S0		
LAMP(s): 4 F32/T9, EACH RATED 2850 LUMENS.		
LUMINAIRE: NEW 2X4 TROFFER WITH 6K13 CELL LOUVER		
0.942 AMPS    111.2 WATTS		

CANDELA DISTRIBUTION					FLUX
0.0	22.5	45.0	67.5	90.0	
0	3384	3384	3384	3384	
5	3368	3352	3339	3328	316
15	3191	3137	3060	3025	870
25	2880	2759	2730	2883	2944
35	2446	2303	2491	2620	2666
45	1911	1852	2015	2236	2344
55	1209	1231	1336	1317	1441
65	127	199	283	257	201
75	17	19	18	17	16
85	-2	-2	-2	-3	-2
90	0	0	0	0	0

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIT
0 - 30	2488	21.8	35.2
0 - 40	4051	35.5	57.2
0 - 60	6781	59.5	95.8
0 - 90	7078	62.1	100.0
90-180	0	0.0	0.0
0-180	7078	62.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 62.1 %  
TOTAL REFLECTANCE OF PAINT = 90.0 %

CIE TYPE - DIRECT PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.2 1.3  
SHIELDING ANGLES : 26 30  
PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 45.000 21.000

LUMINANCE DATA IN CANDELA/SQ M  
ANGLE AVERAGE AVERAGE AVERAGE  
IN DEG 0-DEG 45-DEG 90-DEG  
45 4311. 4672. 5435.  
55 3456. 3819. 4119.  
65 493. 780.  
75 108. 114. 101.  
85 -38. -38. -56.

The figure is a light distribution diagram. It features a vertical axis on the left representing distance in feet, with markings at 3450, 2300, and 1150. The horizontal axis at the top represents beam angle in degrees, with markings at 0°, 15°, and 30°. Two curves originate from the bottom left and extend towards the top right, defining a beam spread. The upper curve is solid, and the lower curve is dashed. To the right of the diagram, there are three horizontal reference levels labeled 90°, 75°, and 65°.

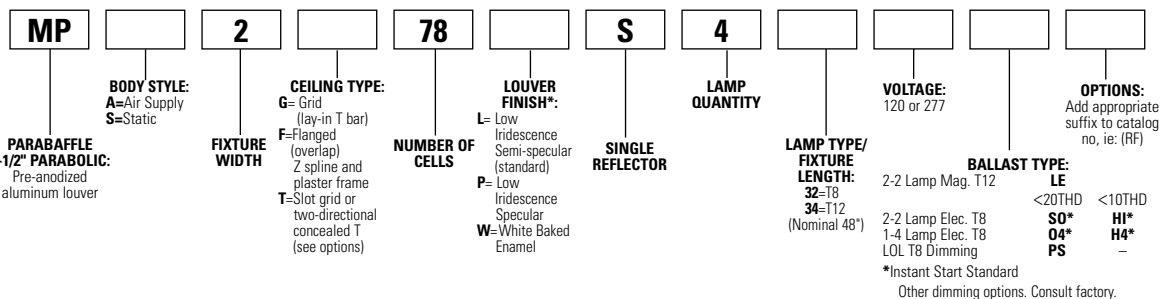
Below the diagram is a legend:

- LEGEND:
- 0 deg: ———— (solid line)
- 45 deg: - - - - - (dashed line)
- 90 deg: \_\_\_\_\_ (long-dashed line)

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES • FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

coefficients of utilization — zonal cavity method										
RF		20			20			20		
RC		80			50			30		
RW		70	50	30	50	30	10	50	30	10
room cavity ratio	1	69	67	65	63	62	60	61	59	58
	2	64	60	57	57	54	52	55	53	51
	3	59	54	50	51	48	45	50	47	44
	4	55	48	44	46	42	39	45	41	39
	5	51	44	39	42	38	35	41	37	34
	6	47	40	35	38	34	31	37	33	30
	7	44	36	31	35	30	27	34	30	27
	8	41	33	28	32	28	25	31	27	24
	9	38	30	26	29	25	22	29	25	22
	10	36	28	23	27	23	20	27	23	20
visual comfort probability (VCP) average 100 fcc; reflectances 80/50/20										
room size		ceiling height				ceiling height				
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0	16.0
20	20	84	78	72	77	82	75	67	73	
20	30	86	81	76	73	82	79	72	67	
20	40	86	81	80	76	82	79	76	71	
20	60	86	82	80	79	82	79	76	75	
30	20	85	82	73	75	82	80	70	73	
30	30	86	85	77	71	82	83	74	67	
30	40	86	85	81	75	82	83	78	71	
30	60	86	85	81	78	83	83	78	75	
30	80	86	85	81	78	83	83	78	75	
40	20	85	82	75	76	82	80	72	74	
40	30	86	85	80	72	82	83	77	69	
40	40	86	85	82	76	83	83	80	73	
40	60	87	85	82	79	83	83	80	76	
40	80	87	85	82	79	83	83	80	76	
40	100	87	85	82	79	83	83	80	76	
60	30	86	85	80	75	83	83	77	73	
60	40	86	85	82	78	83	83	80	76	
60	60	87	85	82	81	83	83	80	77	
60	80	87	85	82	80	83	83	80	78	
60	100	87	85	82	80	83	83	80	77	
100	40	87	85	82	78	83	83	80	76	
100	60	87	85	82	80	83	83	80	77	
100	80	87	85	82	80	83	83	80	77	
100	100	87	85	82	80	83	83	80	77	

Explanation of Catalog Number. Example: MPA2G78LS43212004RF



**PLASTER FRAME:** Catalog Number: **PF24**

**CONTINUOUS ROW INSTALLATION:** For F type fixtures, half-width flanges are required between fixtures. Order Catalog Number: **S2FCTRIM** (each joint).

**SPLAY TRIM:** For T ceiling type only. SUFFIX: **CTZ24 S2 SPLAY TRIM.**

**RADIO INTERFERENCE FILTER:** 120 or 277 volt, 50 or 60 Hz. One per fixture standard. SUFFIX: **BE**

**ELECTRICAL/WIRING OPTIONS:** Consult factory.

**AIR CLOSURE STRIP:** SUFFIX: **ACS4** (factory installed).

**DRYWALL KIT:** Order Catalog Number: **FK92X4**. (Request Folio OA30-10)

**CHICAGO PLENUM:** SUFFIX: **CP.**

**PERFORMANCE:** In an installation of 4 lamp 32W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .67. To prevent glare the VCP shall be not less than 80 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 1098 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 64.8%.

**AIR HANDLING** (MPA only) side air passages for air supply or air return. Supply air is discharged vertically. Optional side closure strips. Air return is also provided through the lamp compartment through fixture body ends.

**MATERIALS:** Chassis parts are die-formed code gauge cold rolled steel. Housing is ribbed for rigidity with side rails hemmed over and housing ends turned-in for safe handling. **Louver** is pre-anodized aluminum (Coilzak® or equal).

**FINISH: Chassis exterior**—black baked polyester enamel. **Cavity**—white baked polyester enamel minimum 86% reflectance. Phosphate undercoating. **Louver**—low iridescence semi-specular anodized vertical grain aluminum reflector sheet is standard.

**ELECTRICAL:** Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

**LABELS:** I.B.E.W. UL and ULc Listed.

<b>Job Information</b>	<b>Type:</b>
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**Lighttoller** a Genlyte Thomas Company [www.lighttoller.com](http://www.lighttoller.com)  
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